IPMIView for iOS

User's Guide

Revision 1.1.0

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Manual Revision 1.1.0

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1 Overview

IPMIView (IPMI-Over-LAN) is a management software program based on IPMI specification revision 1.5 - 2.0. IPMIView sends IPMI messages to and from the BMC (Baseboard Management Controller) on a host system at a remote location. IPMI messages are encapsulated in RMCP (Remote Management Control Protocol) packets called “datagrams”. This method is also referred to as “IPMI-over-LAN”.

According to the Distributed Management Task Force (DMTF) specification, RMCP is used for system management in a pre-OS or an OS-absent environment. RMCP is a simple request-response protocol that can be delivered using UDP (User Datagram Protocol) datagrams. IPMI-over-LAN uses version 1 of the RMCP protocol and packet format. An RMCP packet is transmitted via an IP (Internet Protocol) network, which allows system managers to manage their IPMI-enabled systems over the Internet. In a private LAN network, this is a basic feature. IPMI uses the same UDP port number (623 in decimal) as the ASF (Alert Standard Forum) protocol. If the managed system is protected by a firewall, UDP port 623 must be opened.

Now the iOS app of this program has been developed to expand its use. With IPMIView for iOS and a wireless connection, users can manage BMCs via their mobile devices with ease.

In addition, this app also provides you with a console to remotely and directly monitor and control your Supermicro servers.

2 Installation

2.1 Requirements

Make sure your device meets these requirements before installation.

- iOS version 7.0 or higher

2.2 Limitations

Support BMC list:

- ASPEED AST2400 BMC on-Board (X10,B10,B1 boards)
- Renesas SH7757 BMC on-Board (X9,B9 boards)
- Nuvoton WPCM450 BMC on-Board (X9 boards)
- Winbond WPCM450 BMC on-Board (X8 boards)

* KVM-over-LAN supports BMCs with ATEN solution in ASPEED AST2400(X10,B10,B1) and WPCM450(X9).

2.3 Installation

To install IPMIView on your mobile device, follow these steps:

1. Search for “Supermicro IPMIView” in the Apple App store.
2. Download and install the “Supermicro IPMIView” application on your iOS mobile device.

3 Grouping BMCs

3.1 Basic Setup

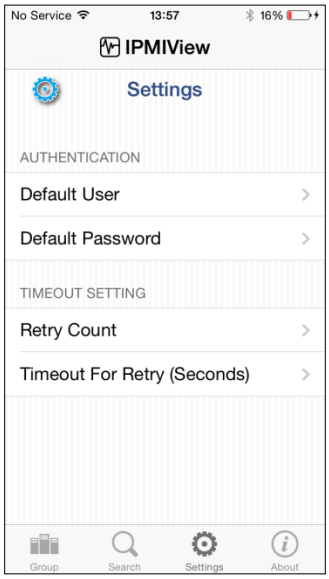
Before use, enter the username and password set up in your IPMIView at the control site.

1. Tap the IPMIView app icon

on the screen page.

2. Select the Settings icon

on the bottom. This screen page appears.



3. Tap Default Username and enter the username.
4. Tap Default Password and enter the password.

3.2 Creating a Group

1. Select the Group icon

on the bottom and tap the menu button on the device or the icon

.

2. Tap the icon to add the Group, and then enter a name for this group.

3. Tap the option

in the upper right to save the change.

3.3 Searching for BMCs

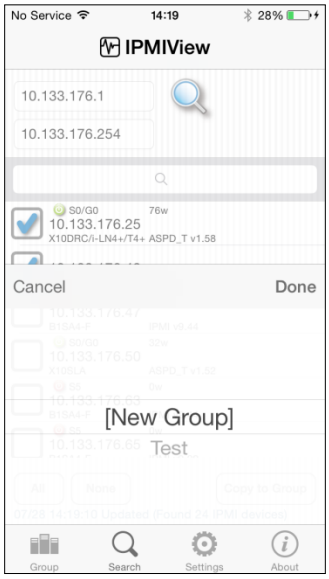
To search for BMCs, follow these steps:

1. Select the Group icon

on the bottom, enter the desired IP range in the field and then tap the icon .

2. Select the desired BMCs to be collected in the same group, tap the

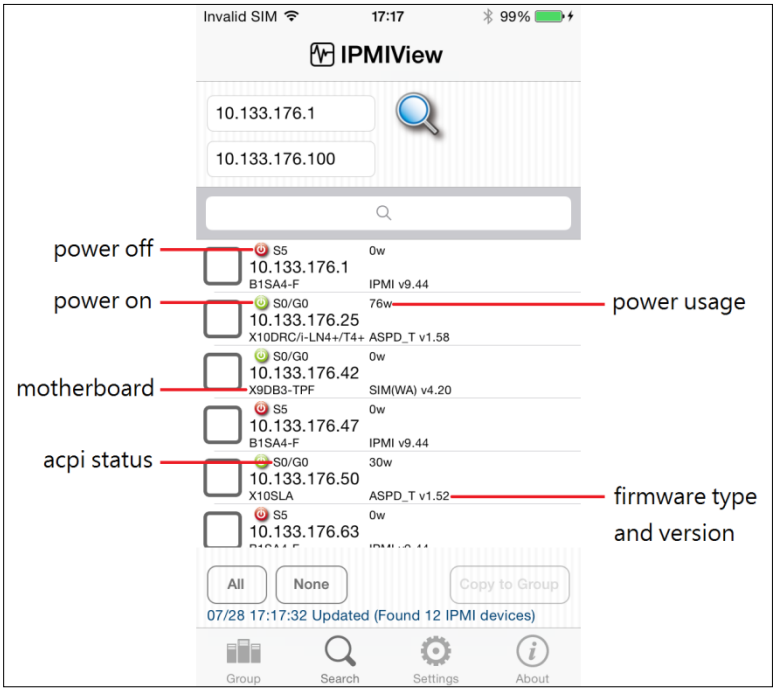
button, and select Move to other Group or select New Group.



3. Assign the selected BMCs to the desired group.

3.4 Group Overview

Tap the desired group for an overview of the BMCs in the group.



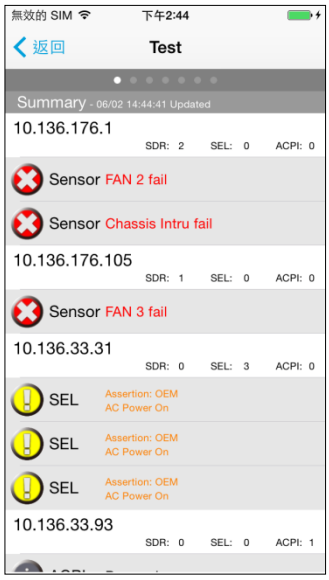
3.5 Diagnosing a Group

To view the status of each BMC in the group, follow these steps:

1. Tap the

tab, select the desired group, and then tap the icon .

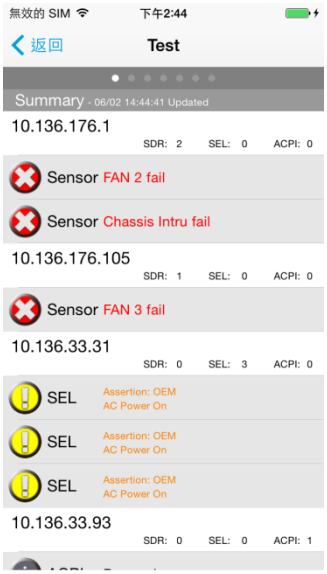
2. A diagnostic report is generated.



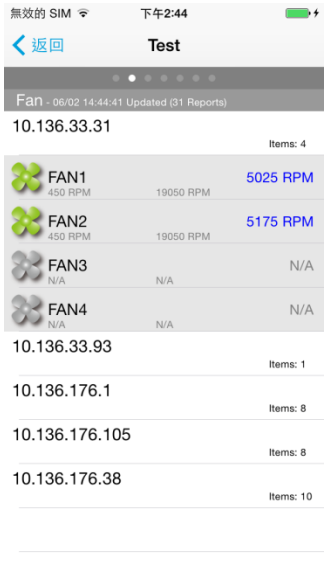
The report includes the following information: Summary, Fans, Temperatures, Voltages, Sensors, Event Log and ACPI.

3. Click on each item to enter the desired BMC function view.

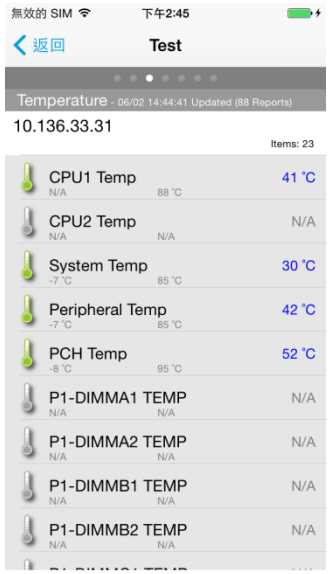
Summary



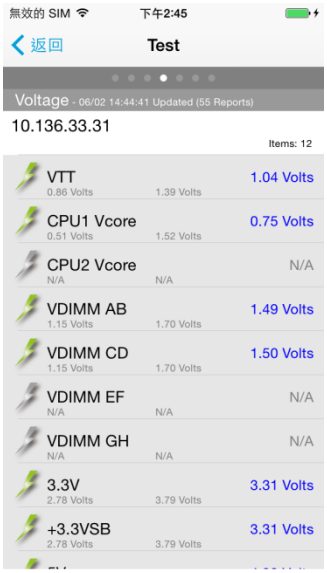
Fans



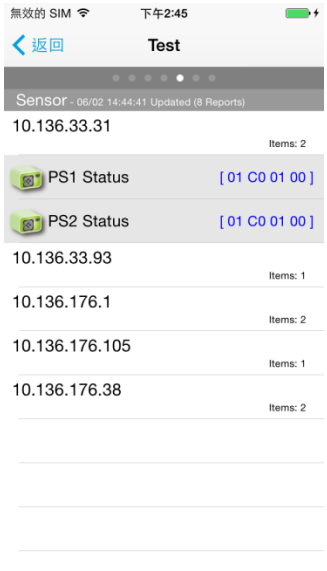
Temperatures


無效的 SIM
下午2:45
返回
Test
Temperature - 06/02 14:44:41 Updated (88 Reports)
10.136.33.31
Items: 23
CPU1 Temp N/A 88 °C 41 °C
CPU2 Temp N/A N/A N/A
System Temp -7 °C 85 °C 30 °C
Peripheral Temp -7 °C 85 °C 42 °C
PCH Temp -8 °C 95 °C 52 °C
P1-DIMMA1 TEMP N/A N/A N/A
P1-DIMMA2 TEMP N/A N/A N/A
P1-DIMMB1 TEMP N/A N/A N/A
P1-DIMMB2 TEMP N/A N/A N/A

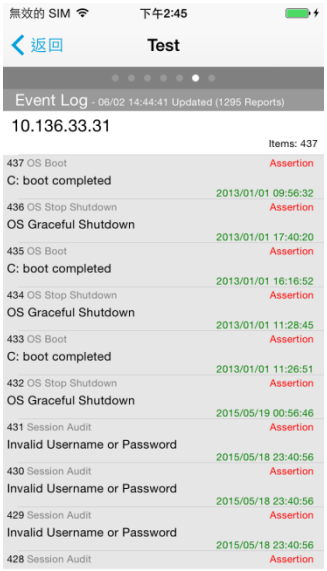
Voltages


無效的 SIM
下午2:45
返回
Test
Voltage - 06/02 14:44:41 Updated (55 Reports)
10.136.33.31
Items: 12
VTT 0.86 Volts 1.39 Volts 1.04 Volts
CPU1 Vcore 0.51 Volts 1.52 Volts 0.75 Volts
CPU2 Vcore N/A N/A N/A
VDIMM AB 1.15 Volts 1.70 Volts 1.49 Volts
VDIMM CD 1.15 Volts 1.70 Volts 1.50 Volts
VDIMM EF N/A N/A N/A
VDIMM GH N/A N/A N/A
3.3V 2.78 Volts 3.79 Volts 3.31 Volts
+3.3VSB 2.78 Volts 3.79 Volts 3.31 Volts

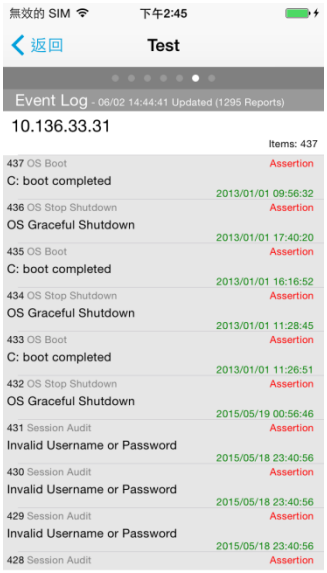
Sensors



Event Log



ACPI



3.6 Manually Sorting the List

To sort the BMCs on the group list, follow these steps:

1. Tap the menu button on the device or the icon Edit in the navigation bar.
2. Select the desired BMC to be moved around, and then drag and drop the icon next to it.
3. Tap the option Done in the upper right to save the change.

3.7 Changing Names of IP Addresses

To modify the name or IP address of a BMC, long press the desired BMC on the screen and enter the new information.

3.8 Adding a BMC to Another Group

To add a BMC to one or more groups, tap the check box on the device, and then select Copy to Group.

3.9 Deleting a BMC from a Group

To delete a BMC from a group, tap the menu button on the device or the icon Edit in the navigation bar, tap the remove icon and press delete button Delete.

3.10 Filtering for Specific BMCs

To locate specific BMCs, tap the search bar and then enter the keywords in the filter device field.

3.11 Group Settings

Set group username and password by tapping the icon.

4 Managing a BMC

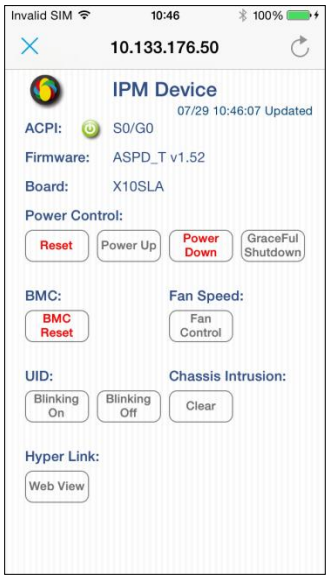
To view the details of a BMC, tap the desired group then tap the IP address of the desired BMC. The page screen below appears.

Scroll down to find more about the types of BMC functions listed. Tap any desired function to further manage the BMCs.

- IPM Device
- LAN Setting
- FRU
- User
- Sensors
- Event Log
- Power Supply
- Raw Command
- Health Check
- Preference
- KVM
- Multi-Node
- Summary

4.1 IPM Device

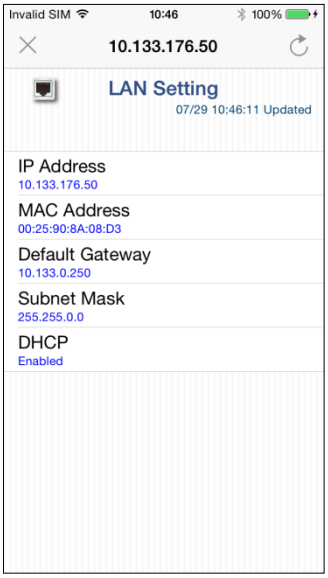
This option is used to display the information and functionality of the BMC firmware installed in the system.



- **Reset:** Resets the server.
- **Power up:** Turns on the server.
- **Power Down:** Turns off the server.
- **Graceful Shutdown:** Shuts down the server with software.
- **BMC Reset:** Resets the BMC.
- **Fan Control:** Sets the fan speed on the server.
- **Blinking on/off:** Sets the server blinking on/off.
- **Clear:** Clears the chassis intrusion record.
- **Web View:** Opens a browser view of BMC management.

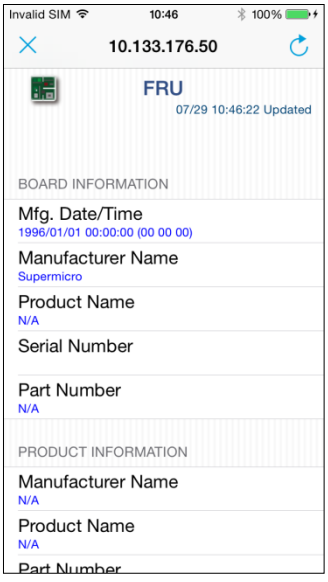
4.2 LAN Setting

This option displays the network settings.



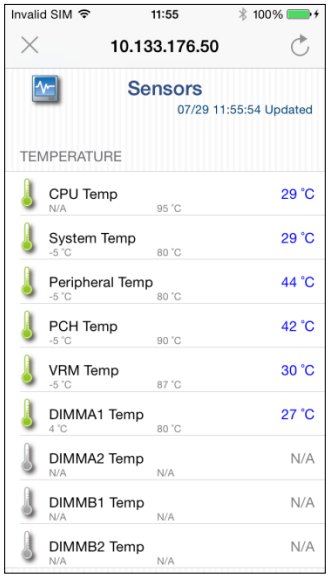
4.3 FRU

This option provides information on FRUs, including the serial number, part number, and the components of the motherboard.



4.4 Sensors

This option displays the status of each sensor used to monitor system health.

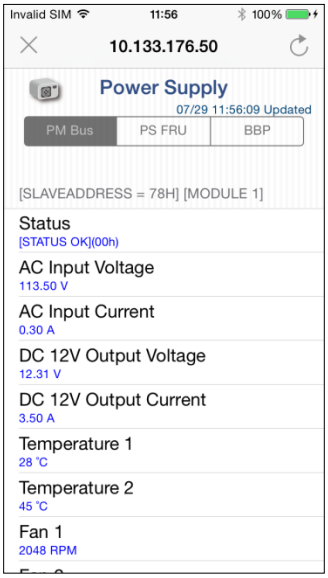


4.5 Event Log

This function allows you to access the system event log.

4.6 Power Supply

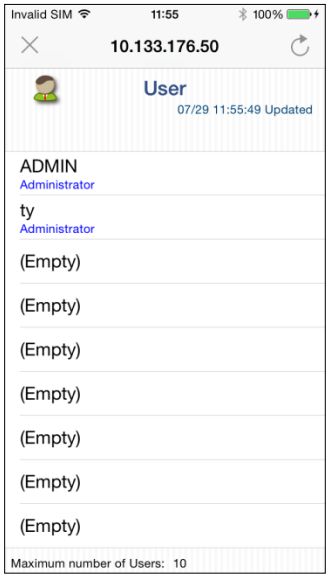
This option is used to display the power supply information in the system.



- **PMBus**: Displays the PMBus information of the power supply.
- **FRU**: Displays the FRU information of the power supply.
- **BBP** (Battery Backup Power): Select **Set the battery discharge setting** to configure how a battery is discharged or **View the current battery status** for information on the battery in use.

4.7 User

This option is used to access or edit the user information.



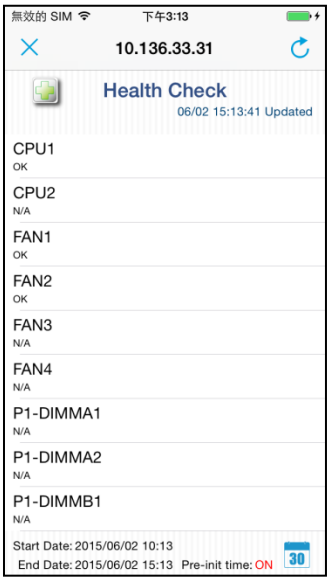
- To add or modify the user information, tap the desired item.
- To clear the user information, long press the desired item.
- Note that the user “ADMIN” cannot be deleted.

4.8 Raw Command

This option allows for the execution of raw IPMI commands.

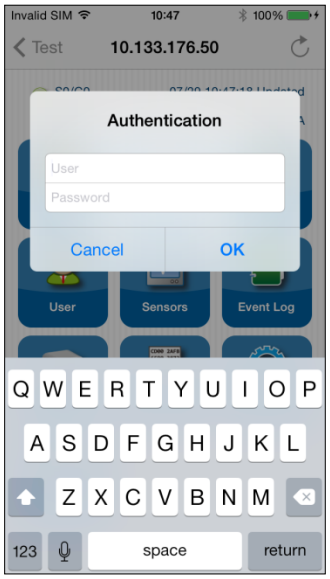
4.9 Health Check

This option displays the status of each sensor health.



4.10 Preference

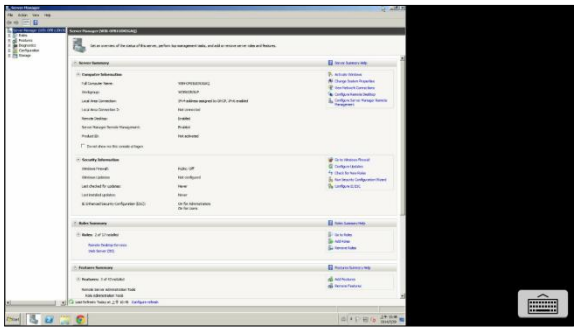
This option allows the user to specify the login ID and password of the desired BMC.



If any information has been modified, tap the menu button on the device or the icon in the navigation bar to update.

4.11 KVM

This option allows the user to perform console redirection via KVM (Keyboard/Video/Mouse) support.



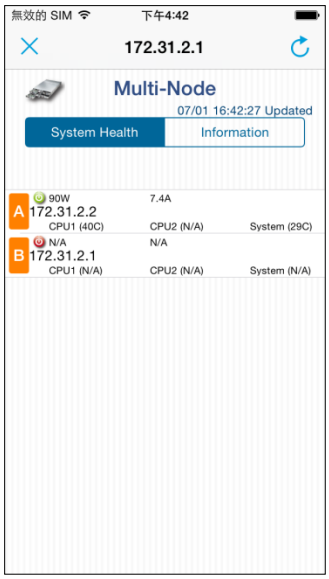
To control the cursor, use these multi-touch gestures:

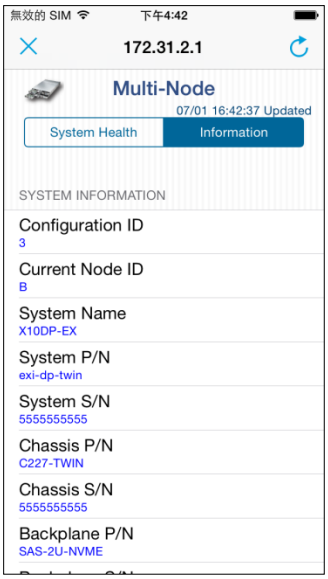
- Moving the mouse: Drag the screen and move.
- Double-clicking the left mouse button: Double-tap the screen.
- Clicking the left mouse button: Tap the screen once.
- Clicking the right mouse button: Long press the screen.
- Using the mouse wheel: Use two fingers to scroll up or down.
- Using the mouse to draw a selection rectangle or drag a window: Double-tap the screen or the desired window and drag.

For details on the use of virtual keyboard, see *5. Using the KVM Keyboard.*

4.12 Multi-Node

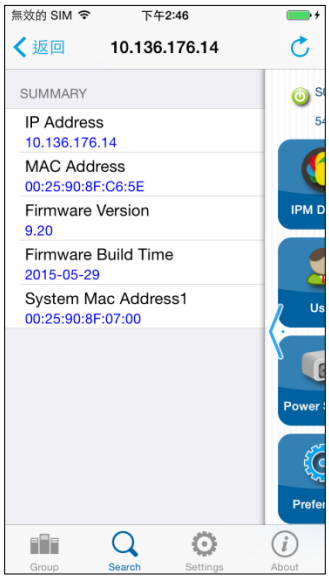
This option displays the status of multi-node system health. Tap the tab **INFORMATION** for detail information.





4.13 Summary

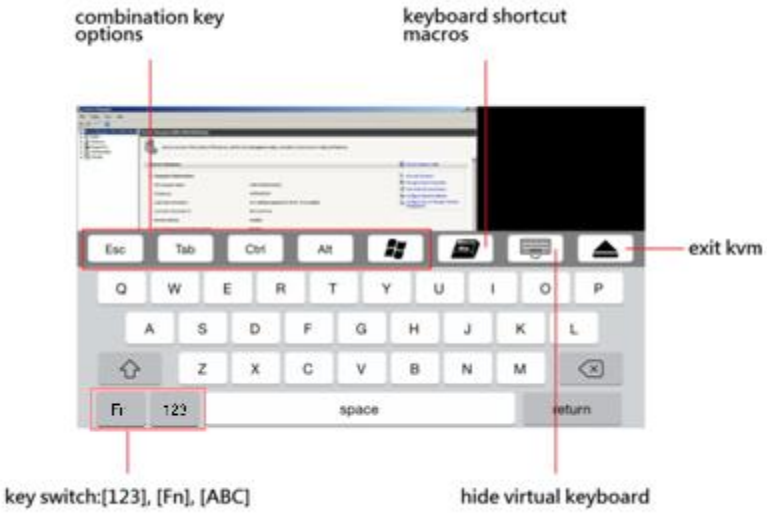
Slide the screen from left to right to show BMC summary.



5 Using the KVM Keyboard

A virtual keyboard on the screen is provided when you access the KVM console. To call up the virtual keyboard, tap the icon on the menu bar.

5.1 Overview of Virtual Keyboard



- The options [Esc], [Tab], [Ctrl], [Alt] and [Win] above on the virtual keyboard act as combination keys.
- The key is used to switch between caps and symbol keypads.
- Tap the key [123], [Fn] and [ABC] to switch between different keyboards for input options.

6 Open Source Used in IPMIView for iOS

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6.1 OpenSSL

- Notifications:

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  This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

  This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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6.5 ICSDrawerController

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Contacting Supermicro

Headquarters

Address:	Super Micro Computer, Inc. 980 Rock Ave. San Jose, CA 95131 U.S.A.
Tel:	+1 (408) 503-8000
Fax:	+1 (408) 503-8008
Email:	marketing@supermicro.com (General Information) support@supermicro.com (Technical Support)
Web Site:	www.supermicro.com

Europe

Address:	Super Micro Computer B.V. Het Sterrenbeeld 28, 5215 ML 's-Hertogenbosch, The Netherlands
Tel:	+31 (0) 73-6400390
Fax:	+31 (0) 73-6416525
Web Site:	www.supermicro.nl
Email:	sales@supermicro.nl (General Information) support@supermicro.nl (Technical Support) rma@supermicro.nl (Customer Support)

Asia-Pacific

Address:	Super Micro Computer, Inc. 3F, No. 150, Jian 1st Rd. Zhonghe Dist., New Taipei City 235 Taiwan (R.O.C)
Tel:	+886-(2) 8226-3990
Fax:	+886-(2) 8226-3992
Web Site:	www.supermicro.com.tw

Technical Support:

Email: support@supermicro.com.tw